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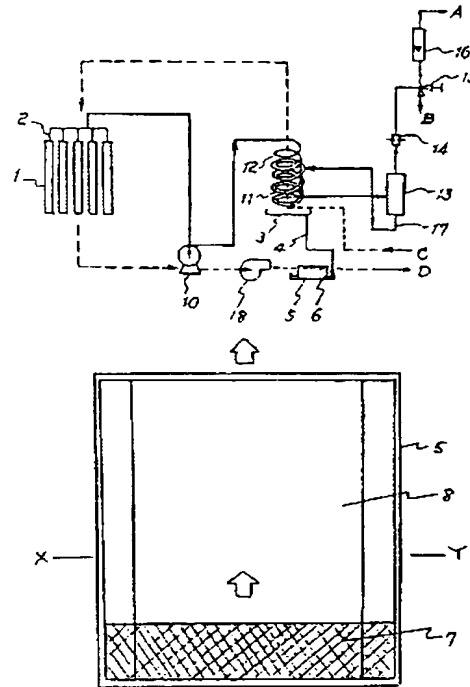
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APPLICANT : TEIJIN LTD;

INVENTOR : SHIMOTE TSUGUYASU;

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TITLE : OXYGEN ENRICHER



ABSTRACT : PURPOSE: To efficiently discharge condensate by sucking up the water in a receiver by gauze and evaporating the water with the waste heat of a pump when oxygen-enriched air is produced from the atmosphere with use of an oxygen permselective membrane and cooled to condense the contained moisture and the condensate is discharged to the outside of the system.

CONSTITUTION: The atmosphere C is cooled by a cooling means 12 and introduced into a membrane element 11 provided with the oxygen permselective membrane. The oxygen-enriched air permeated through the oxygen permselective membrane is taken out by a pump 10, passed through the cooling means 12 having a moisture retaining part 11, a moisture separation means 13, a pressurizing means 14, etc., and used as the oxygen-enriched air A. In this case, the moisture is separated in the moisture separation means 13, a part of the moisture is evaporated in the moisture retaining part 11 and the residual condensate is introduced into a receiver 5 from a receiver 3. Then the water in the receiver 5 is sucked up by capillarity by using a water retaining member 8 of gauze, etc., heated with the air warmed by the waste heat of the pump 10, evaporated and discharged to the outside of the system.

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